

Datasheet for 100-4184P**NFkB p105 Peptide****Overview**

Description:	NFkB p105 Peptide - 100-4184P
Item No.:	100-4184P
Size:	50 µg
Origin:	Human

Product Details

Background:	NFkB was originally identified as a factor that binds to the immunoglobulin kappa light chain enhancer in B cells. It was subsequently found in non-B cells in an inactive cytoplasmic form consisting of NFkB bound to IκB. NFkB was originally identified as a heterodimeric DNA binding protein complex consisting of p65 (RelA) and p50 (NFkB1) subunits. Other identified subunits include p52 (NFkB2), c-Rel, and RelB. The p65, cRel, and RelB subunits are responsible for transactivation. The p50 and p52 subunits possess DNA binding activity but limited ability to transactivate. p52 has been reported to form transcriptionally active heterodimers with the NFkB subunit p65, similar to p50/p65 heterodimers. Both p50 and p52 are synthesized in a precursor form referred to as p105 and p100, respectively. The heterodimers of p52/p65 and p50/p65 are regulated by physical inactivation in the cytoplasm by an inhibitor called IκB-a. IκB-a binds to the p65 subunit, preventing nuclear localization and DNA binding. Low levels of p52 and p50 homodimers can also exist in cells. Reports describe the 607 aa C-terminal region (CTR) of p105 as IκB-g in that the molecule acts as an inhibitor of NFkB by binding to p65 and other NFkB subunits. p105 contains an N-terminal p50 domain followed by a glycine rich region (GRR), ankyrin repeat domain (ARD), death domain (DD) and destruction box (DB).
Synonyms:	Nuclear factor NF-kappa-B p105 subunit, DNA-binding factor KBF1, EBP-1 antibody, control peptide, blocking peptide
Species of Origin:	Human
Type:	Peptide

Target Details

Purity/Specificity:	Greater than 95% specific peptide.
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Application Details

Application Note:	This peptide can be used as a control in immunoblot assays with NFkB p105 Antibody (p/n 100-4184).
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Lyophilized
Buffer:	None
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	50µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 2 - 8 ° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

Disclaimer

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